



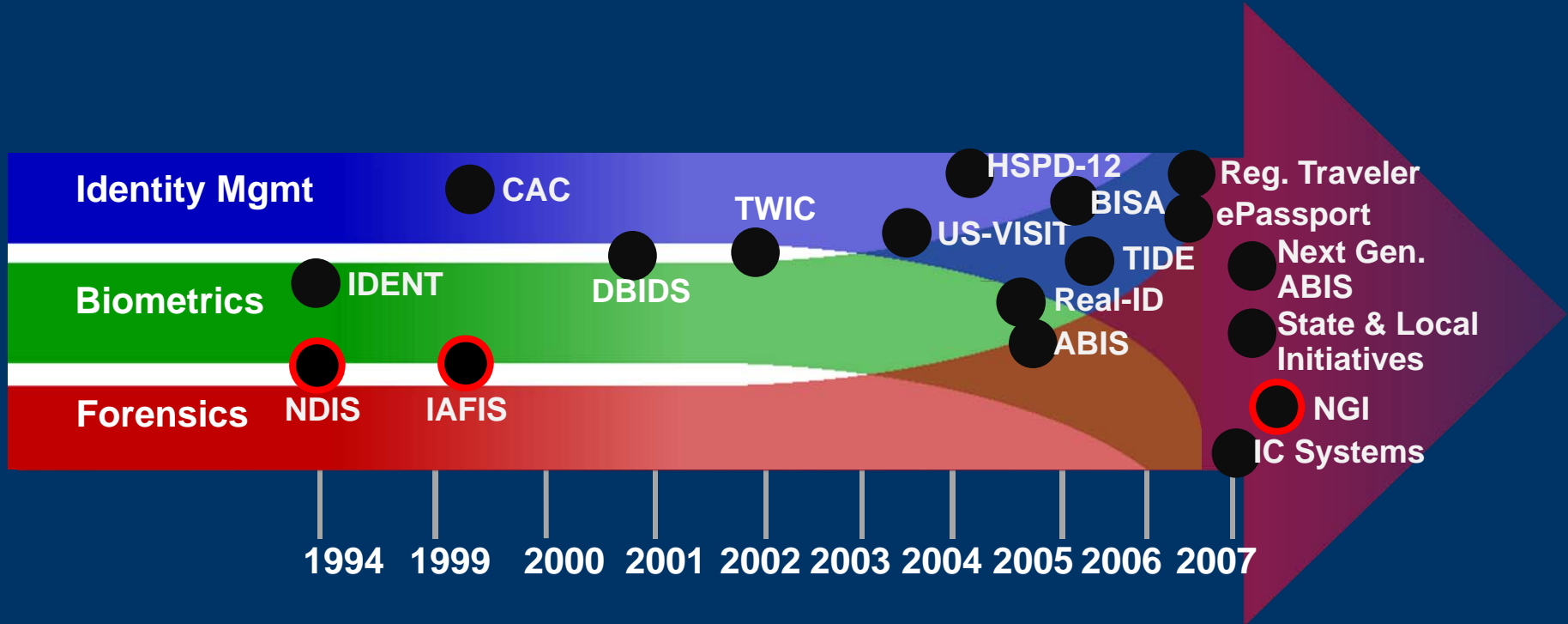
# ***FBI BIOMETRIC CENTER OF EXCELLENCE***

**September 25, 2008**

Presented by:  
FBI Science &  
Technology Branch



# US Agencies are developing a myriad of identity systems



Ensuring a coordinated effort to harness the benefits of new biometrics for law enforcement and intelligence is a challenge

 Denotes FBI Databases

# **There has been an upsurge of Government-wide biometrics policy**

- ▶ The central importance of biometrics is acknowledged in a series of recent Presidential Directives:
  - HSPD-6 (2003); HSPD-11(2004); HSPD-12 (2004); NSPD-59/HSPD-24 (2008); NSTC's Task Force on Identity Management Report
- ▶ The National Science and Technology Council (NSTC) strives to provide policy guidance and coordinate cross-agency efforts with Biometrics and Identity Management subcommittees

**Within this context, the FBI has decided to establish a Biometric Center of Excellence**

# The FBI has a long history of leading efforts in biometrics



**IAFIS:** The nation's fingerprint and criminal history system of more than 55 million subjects provides automated search capabilities 24 hours a day, 365 days a year with criminal responses sent in less than 2 hours and civil responses in less than 24 hours



**CODIS:** The national DNA database has produced over 45,400 hits assisting in more than 46,300 law enforcement investigations



**NGI:** Upgrading and expanding the IAFIS system, NGI will collect modalities beyond fingerprints and facilitate increased sharing of biometrics data

# A central biometrics hub within the FBI will benefit the community

- ▶ Protecting privacy by creating standards and developing technical infrastructure
- ▶ Promoting standard-setting across the biometric community to address interoperability
- ▶ Meeting new federal and departmental requirements
- ▶ Facilitating appropriate interdependencies among key stakeholders

# The Biometric Center of Excellence (BCOE)

## Key Goal:

“To enable the FBI to provide enhanced U.S. Government services in the global quest to fight crime and terrorism with state-of-the-art biometrics technology”

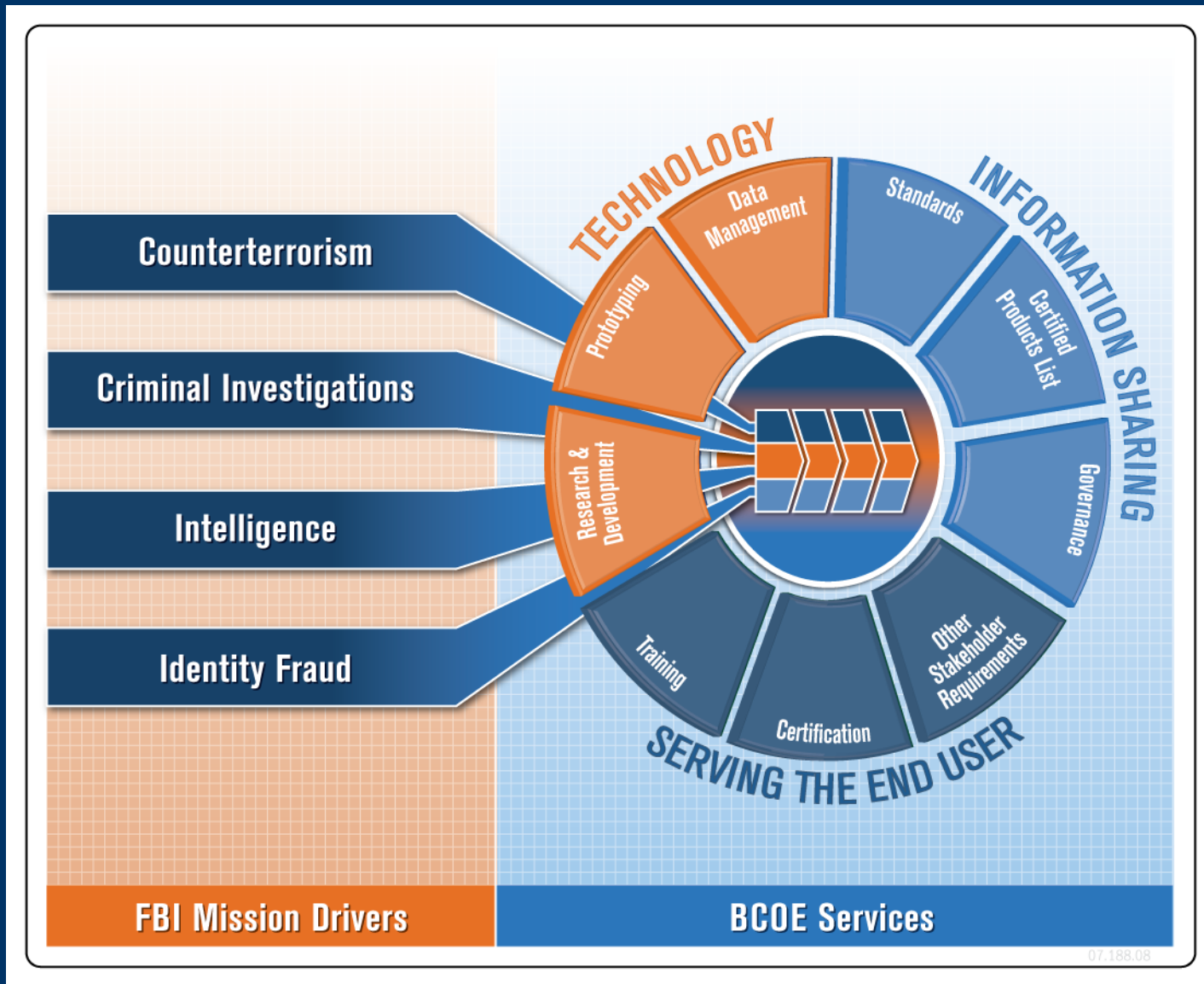
# BCOE Objectives

## Objectives:

- ▶ Ensure the FBI is integrated on biometric initiatives and remains efficient and effective
- ▶ Drive biometric technology by challenging federal agencies, academia, and industry to meet government identity management needs
- ▶ Ensure privacy rights are maintained
- ▶ Obtain funding for priority biometric research
- ▶ Build Biometric Technology Center
- ▶ Support development of standards, training, certification and court preparation
- ▶ Gain new capabilities to support counterterrorism and criminal investigations at federal, state, and local levels



# BCOE Integrated Capabilities





# BCOE Early Accomplishments

Commissioning and  
Publishing a Technical  
Baseline

Planning for the  
Biometric Technology  
Center

Funding and  
Leveraging Research

Working with  
Partners and Sharing  
Information



# Commissioning and Publishing a Technical Baseline

## State of the Art Biometrics Excellence Roadmap

### Technical Assessments

- ▶ Fingerprints
- ▶ Vascular
- ▶ Face
- ▶ Ear
- ▶ Handwriting
- ▶ Palmprints
- ▶ Standards
- ▶ Iris
- ▶ Voice
- ▶ DNA

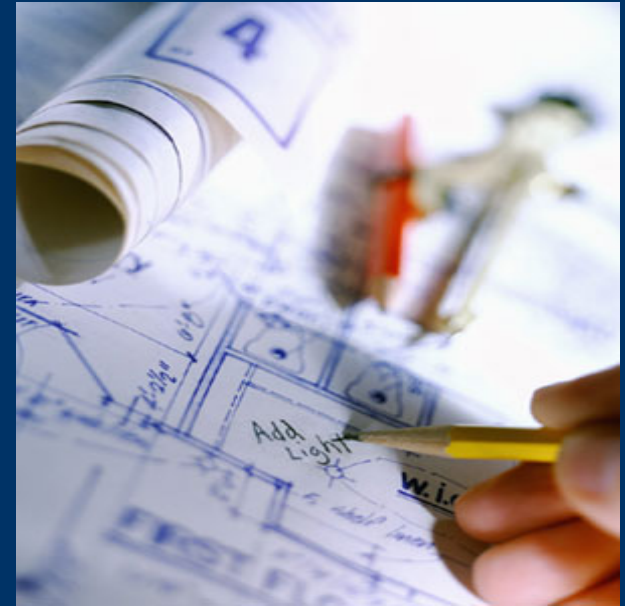
### Certified Products List

- ▶ Facial Imaging
- ▶ Iris Imaging
- ▶ Organizational Structure

- ▶ The BCOE commissioned the MITRE Corporation to conduct a ten-month study focused on a technical assessment of biometric modalities
- ▶ Provides a comprehensive evaluation of the current biometric landscape
- ▶ Will publish the Technical Assessments and Certified Products List Evaluation for the benefit of the Biometric Community at large

# Planning for the Biometric Technology Center

- ▶ State of the art research and development, training, conference, and office facility
- ▶ 360,000 square foot building located in Clarksburg, West Virginia
- ▶ Accommodate enhanced interagency biometric information sharing through the co-location of the FBI and DoD
- ▶ Establish the infrastructure support for critically needed biometric capabilities
- ▶ Provide US Government, academia, industry, and foreign partners with a central location for biometric services



# Funding and Leveraging Research

- ▶ The Cooperative Agreement between the FBI and West Virginia University (WVU) signed on February 6, 2008:
  - Leverages academic research in biometrics
  - Engages WVU to conduct and facilitate partnerships, across the entire academic community, for biometric research studies
- ▶ Priority areas identified to date include biometric collection; facial research; scars, marks, and tattoos; and the American National Standards Institute (ANSI) / National Institute of Standards and Technology (NIST) Conversion Tool
- ▶ Operational Technology Division Voice Research is also funded by the BCOE



# Working with Partners and Sharing Information

## Partners include:

- ▶ Government
- ▶ Academic
- ▶ Non-Governmental

## Information Sharing:

### Current Information Sharing Portal:

- ▶ Internet Site: [www.fbibiospecs.org](http://www.fbibiospecs.org)
  - Contains the Electronic Biometric Transmission Specification

### Portal Under Development:

- ▶ FBI BCOE Internet Web site: [www.biometriccoe.gov](http://www.biometriccoe.gov)

# Questions and Answers

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